

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P240201

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T4W-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3573.9 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



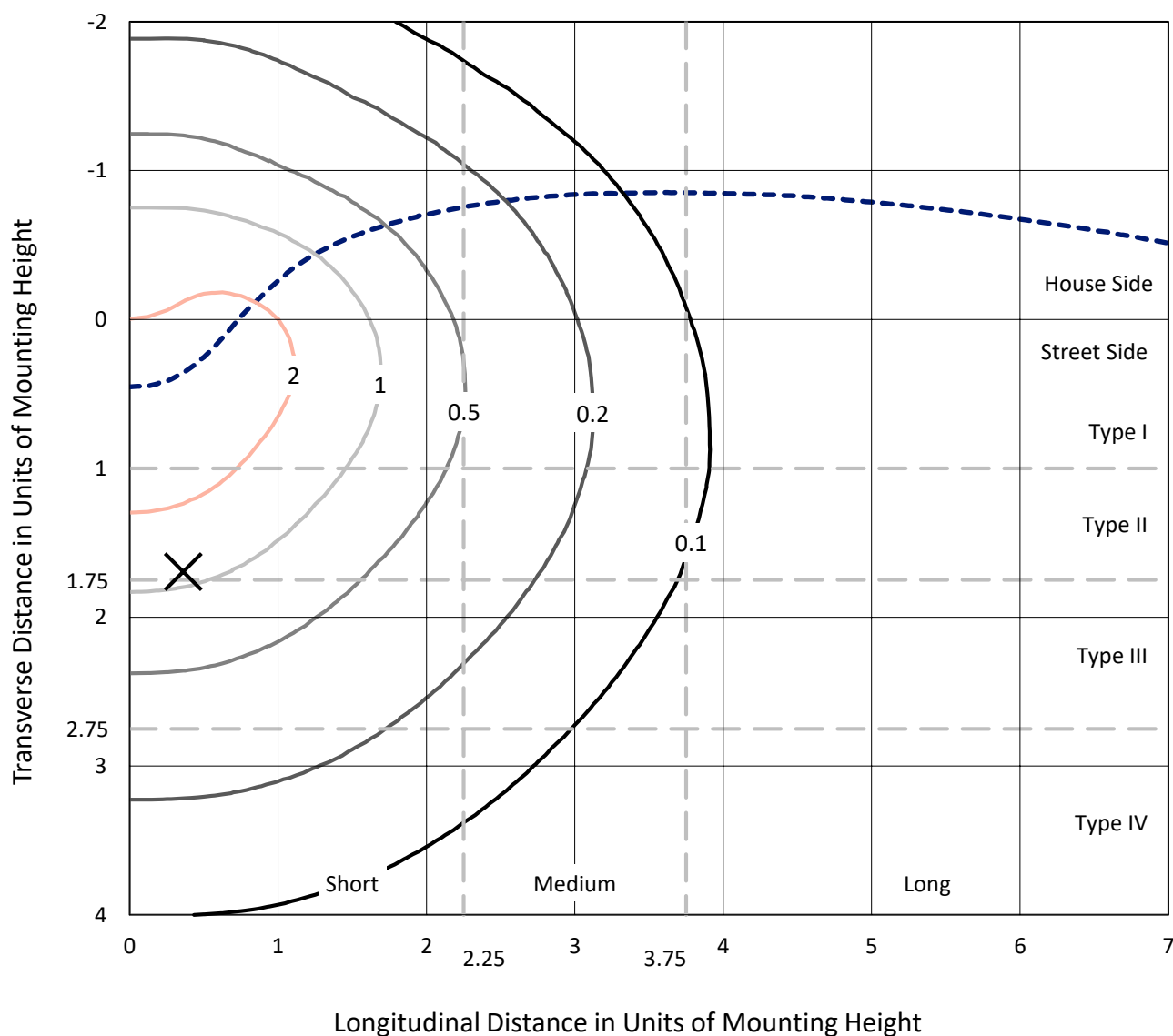
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

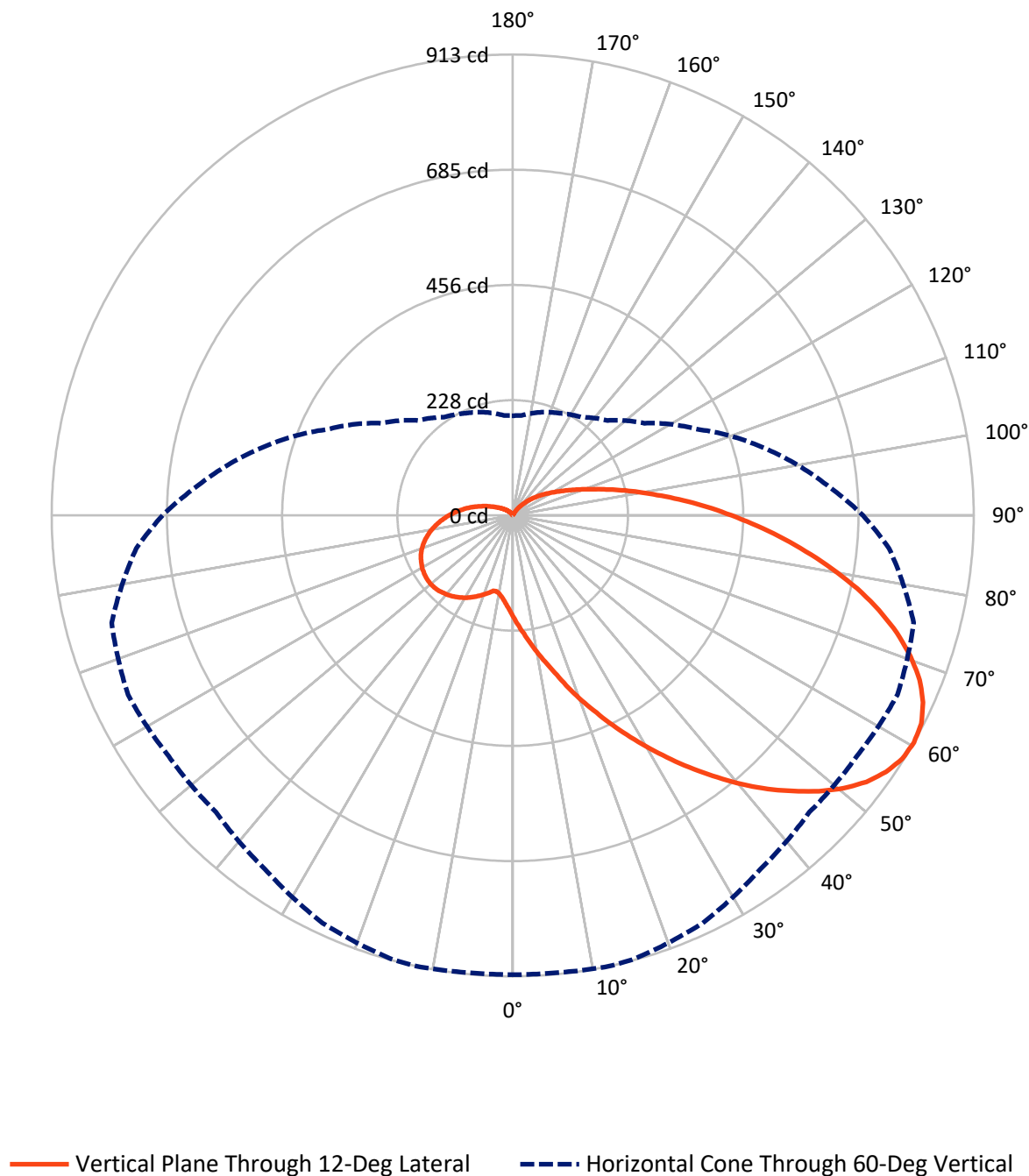


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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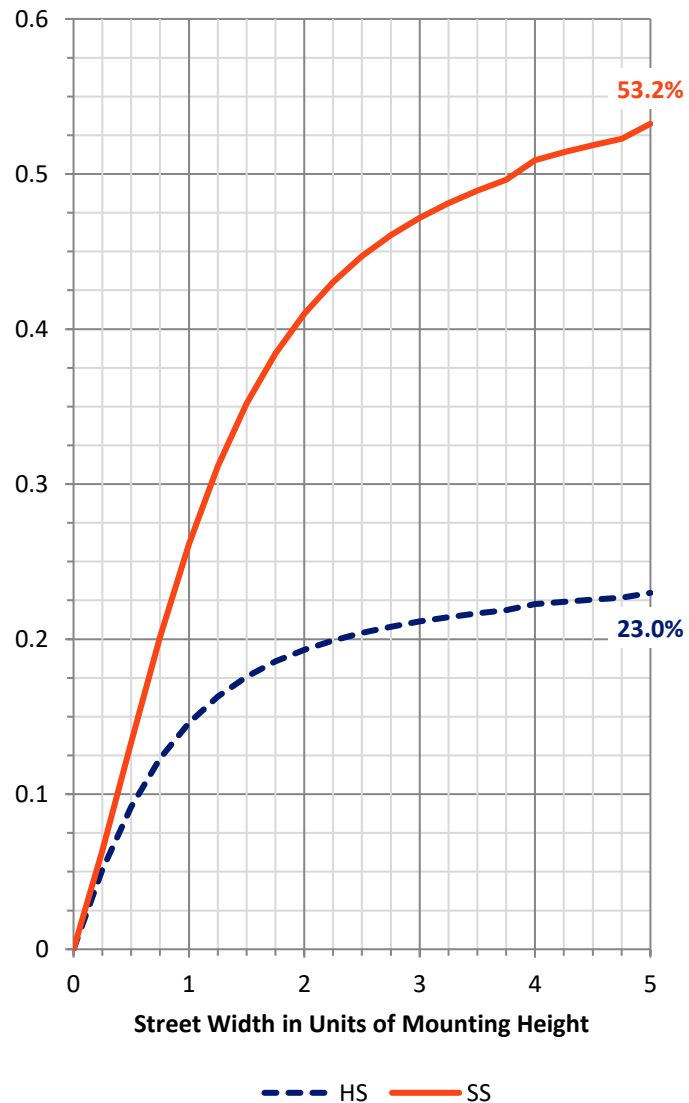
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.7	202.3	1081.0
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	2073.5	419.3	2492.9
	% Fixture	58.0	11.7	69.8
Total	Lumens	2952.2	621.7	3573.9
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	0.6
10°-20°	70.1	2.0
20°-30°	150.3	4.2
30°-40°	263.2	7.4
40°-50°	396.3	11.1
50°-60°	517.4	14.5
60°-70°	576.2	16.1
70°-80°	537.9	15.1
80°-90°	420.8	11.8
90°-100°	284.4	8.0
100°-110°	171.9	4.8
110°-120°	94.7	2.6
120°-130°	47.1	1.3
130°-140°	18.9	0.5
140°-150°	4.5	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2952.2	82.6
0°-180°	3573.9	100.0

Coefficient of Utilization



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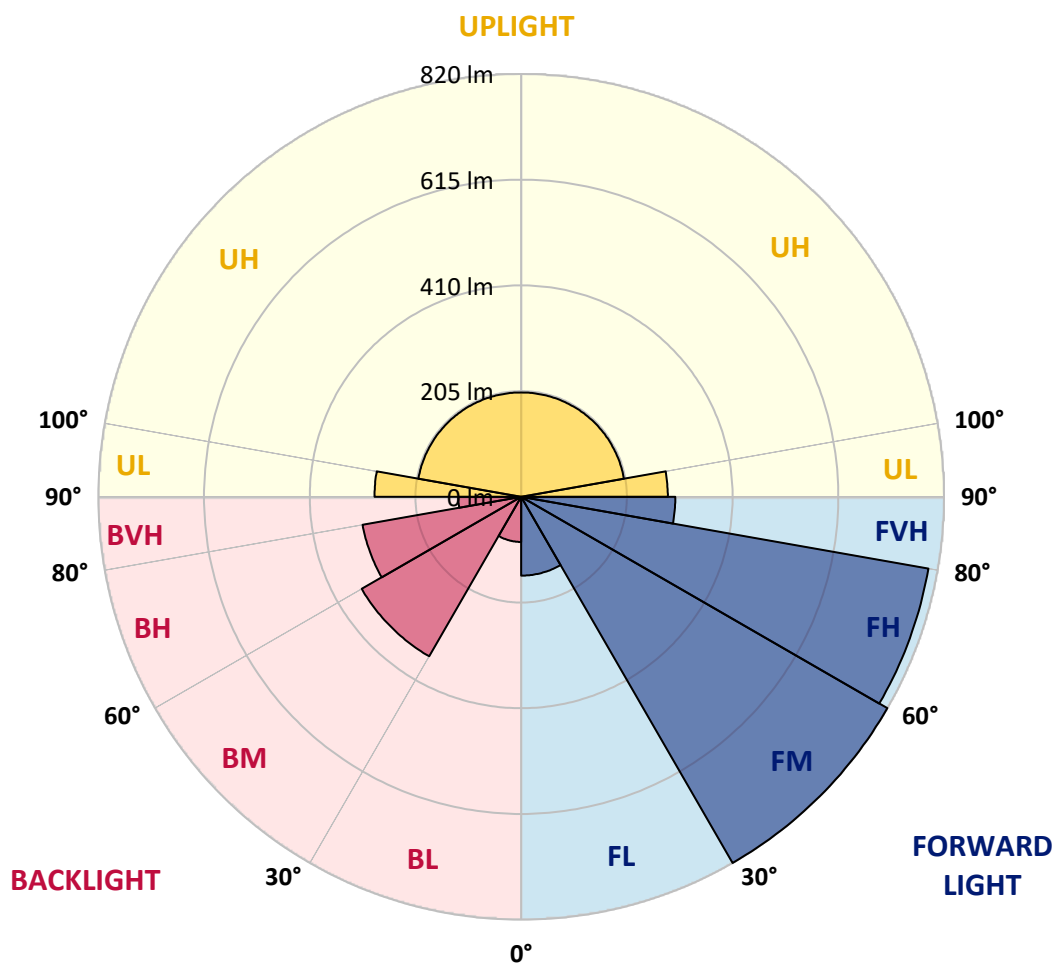
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	152.8	4.3			
FM	(30°-60°)	819.9	22.9			
FH	(60°-80°)	801.9	22.4			G1/1800
FVH	(80°-90°)	298.8	8.4			G3/500
BL	(0°-30°)	87.6	2.4	B0/110		
BM	(30°-60°)	356.9	10.0	B1/1000		
BH	(60°-80°)	312.2	8.7	B1/500		G1/500
BVH	(80°-90°)	122.0	3.4			G2/225
UL	(90°-100°)	284.4	8.0		U3/500	
UH	(100°-180°)	202.3	5.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5
2.5°	218.9	218.1	218.1	217.1	217.1	215.2	213.8	211.4	209.0	206.2	203.9
5°	236.4	236.4	235.6	235.6	233.6	230.3	227.0	222.8	218.5	213.8	208.1
7.5°	257.3	256.9	256.9	255.4	253.1	248.3	243.5	237.4	230.9	222.8	215.2
10°	278.6	278.1	278.1	276.7	273.8	268.2	261.1	254.0	245.5	235.0	224.6
12.5°	304.2	302.2	301.3	300.8	296.1	290.8	281.9	273.3	262.0	250.2	237.4
15°	331.0	330.6	327.8	326.3	321.7	313.6	305.1	294.7	283.3	270.1	254.5
17.5°	361.3	361.3	359.5	357.6	352.4	341.4	330.6	320.6	309.3	293.3	275.8
20°	394.0	394.0	391.5	388.8	382.2	372.7	361.8	349.9	336.3	318.8	297.5
22.5°	428.6	427.5	424.3	422.4	414.3	403.9	395.4	381.7	365.6	345.7	321.1
25°	464.9	463.5	460.2	458.4	448.8	440.9	430.9	414.7	396.4	373.6	346.3
27.5°	503.2	499.5	497.1	494.3	485.2	477.3	463.5	448.4	427.1	403.5	373.2
30°	540.2	538.7	535.9	532.1	524.0	514.6	499.5	482.9	462.0	436.1	402.5
32.5°	582.3	580.8	576.2	572.3	561.9	552.0	536.4	518.9	496.6	469.2	432.7
35°	624.3	622.4	617.2	613.0	604.4	589.8	571.3	554.8	532.5	504.7	465.5
37.5°	667.8	664.1	658.4	655.5	645.1	627.1	607.8	589.8	569.5	541.1	498.6
40°	709.0	707.1	700.5	697.2	685.8	663.5	642.3	626.3	607.8	578.0	533.0
42.5°	751.0	747.8	741.1	737.8	724.6	699.0	676.9	661.7	646.0	616.8	568.0
45°	788.5	787.0	779.0	777.1	761.0	733.5	708.0	694.8	681.1	653.2	600.2
47.5°	824.9	821.5	816.3	814.0	795.1	763.8	738.8	727.4	716.0	690.5	634.7
50°	854.6	854.2	849.5	846.6	824.9	790.8	765.3	756.3	750.2	725.6	665.9
52.5°	880.2	879.7	877.0	874.1	850.9	815.4	789.0	782.3	780.4	757.7	693.4
55°	898.2	897.7	896.8	894.0	871.3	834.8	808.7	803.6	806.0	784.7	718.0
57.5°	908.6	908.2	909.6	907.2	884.0	848.1	822.5	821.1	826.8	807.3	736.4
60°	909.6	909.6	912.9	911.4	890.6	855.2	831.0	831.5	840.5	822.0	748.2
62.5°	901.1	901.1	908.2	906.8	888.8	854.6	832.4	836.3	847.6	830.1	752.5
65°	882.6	884.9	892.9	892.9	878.8	848.1	827.7	833.4	847.1	829.6	749.6
67.5°	853.2	858.0	869.3	870.2	860.3	833.4	815.4	823.5	838.6	820.1	737.8
70°	816.8	823.5	835.3	838.6	834.3	812.2	796.9	806.5	821.1	802.6	718.5
72.5°	774.2	780.4	795.5	799.3	800.8	783.3	771.4	782.8	794.7	774.7	691.5
75°	727.0	732.1	749.2	753.1	759.2	749.2	741.7	750.6	763.8	739.2	656.9
77.5°	669.8	678.7	697.6	701.9	713.7	709.0	703.3	714.2	724.2	698.1	616.8
80°	614.4	625.7	641.4	649.9	664.1	663.5	664.6	671.6	680.1	651.7	573.3
82.5°	558.1	566.2	584.6	592.6	614.4	619.6	619.6	629.0	631.8	600.2	526.4
85°	501.4	510.8	529.3	537.3	560.9	572.3	575.6	580.3	580.8	547.7	478.2
87.5°	451.2	456.9	474.4	484.3	509.9	523.2	527.4	533.0	529.3	496.6	428.6
90°	401.1	406.3	423.3	431.3	459.2	474.8	484.3	486.6	479.1	444.5	383.1
92.5°	354.2	359.5	375.6	385.0	412.5	429.0	438.0	439.9	431.3	396.4	339.1
95°	313.1	313.1	330.6	337.7	368.4	386.9	395.4	395.4	383.6	349.1	297.0
97.5°	274.3	275.3	289.0	297.9	326.3	345.7	354.8	355.2	338.7	306.0	261.5
100°	239.3	240.7	253.5	261.5	289.0	309.3	317.4	316.0	299.0	265.4	226.0
102.5°	210.5	210.5	221.4	228.1	254.0	274.3	281.9	279.0	261.5	229.5	197.2
105°	184.4	185.4	192.6	199.1	223.8	242.7	250.2	246.0	228.1	196.7	172.2
107.5°	163.7	163.2	167.9	172.6	195.8	213.8	220.3	215.2	196.3	168.4	149.4
110°	142.8	143.3	147.1	150.4	171.6	188.7	193.5	189.2	167.9	143.3	129.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	126.3	126.3	129.2	131.9	147.1	163.7	169.4	163.2	142.8	121.6	113.1
115°	112.1	112.5	113.5	114.9	127.8	142.8	147.6	140.0	120.1	104.1	98.4
117.5°	99.8	99.8	100.3	101.7	109.7	123.5	126.7	118.8	101.7	88.9	86.6
120°	89.4	88.9	88.5	88.9	94.6	104.6	107.8	99.8	84.6	77.1	75.2
122.5°	79.4	79.4	78.5	79.0	80.5	88.0	90.3	82.8	71.4	66.6	66.2
125°	70.0	70.0	69.1	68.7	68.1	71.9	72.8	67.2	59.1	57.7	57.3
127.5°	60.9	61.5	60.1	59.5	57.7	58.1	58.7	53.4	48.7	49.1	49.7
130°	53.4	53.4	52.0	51.2	48.3	45.9	44.9	41.6	39.8	41.6	43.0
132.5°	46.3	45.5	44.5	43.4	39.3	35.9	34.1	31.2	32.1	35.0	36.4
135°	38.8	38.4	36.9	36.4	32.1	27.0	23.6	22.7	25.5	28.9	29.8
137.5°	31.6	31.6	30.3	29.3	24.6	19.3	16.1	16.1	19.3	22.7	24.6
140°	25.0	25.0	23.6	22.7	18.5	13.2	10.0	10.4	14.2	17.5	18.9
142.5°	18.9	18.9	17.5	17.1	13.2	8.5	5.7	6.7	10.0	12.8	14.2
145°	13.7	13.2	12.3	11.8	8.5	5.3	2.8	3.9	6.1	8.5	10.0
147.5°	9.0	9.0	8.0	7.5	5.3	2.8	1.0	1.8	3.9	5.3	6.7
150°	5.3	5.3	4.7	4.3	2.8	1.0	0.0	1.0	1.8	2.8	3.9
152.5°	2.8	2.8	2.4	2.4	1.0	0.4	0.0	0.0	0.4	1.4	1.4
155°	1.0	1.0	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5
2.5°	202.4	201.0	198.2	195.8	193.5	190.6	189.2	187.8	186.9	185.8	185.8
5°	205.3	202.4	197.2	192.1	187.3	183.0	179.3	176.5	175.1	174.0	173.6
7.5°	211.4	207.1	198.7	190.6	183.5	176.9	171.6	167.3	165.1	163.7	163.2
10°	219.5	213.3	202.4	191.5	182.1	173.6	166.5	161.2	158.0	156.6	155.5
12.5°	230.3	222.8	208.5	194.9	182.6	172.2	163.2	157.6	154.2	152.3	152.3
15°	246.9	237.0	219.5	201.0	185.8	173.0	163.2	157.0	154.7	153.7	153.3
17.5°	265.8	254.5	233.2	211.9	192.6	176.5	167.3	163.7	160.4	159.0	159.0
20°	286.6	272.9	248.3	224.2	202.4	185.8	175.9	169.8	166.0	164.6	164.1
22.5°	307.4	293.3	264.4	237.0	212.8	198.2	184.0	176.5	171.6	169.8	169.4
25°	331.0	315.4	281.5	250.6	227.5	211.0	194.4	183.5	177.3	175.1	174.5
27.5°	356.6	338.1	300.4	265.4	241.7	222.4	203.9	189.2	183.0	180.2	179.7
30°	383.1	362.7	319.2	280.5	255.4	232.2	212.8	196.3	188.3	184.9	184.4
32.5°	411.1	386.9	339.6	298.5	268.2	241.3	220.3	202.9	193.0	189.2	189.2
35°	442.3	414.3	359.5	315.0	280.0	250.2	227.0	209.0	197.2	193.5	193.5
37.5°	472.0	441.7	380.8	333.0	290.8	257.3	232.2	214.7	201.5	196.7	196.7
40°	503.6	469.2	401.1	347.7	300.4	263.0	237.0	218.9	204.8	200.5	199.6
42.5°	534.5	496.6	422.9	362.7	308.3	267.6	240.7	222.8	207.6	202.4	201.9
45°	566.6	524.0	443.7	375.1	315.0	271.0	242.7	225.2	211.0	204.4	203.3
47.5°	594.5	550.1	464.1	385.9	320.2	272.9	244.0	227.0	212.8	205.3	204.4
50°	622.4	573.3	481.1	395.0	323.1	273.8	244.5	227.5	214.2	205.3	204.4
52.5°	647.5	595.0	495.7	401.1	324.5	273.3	244.0	227.5	214.7	204.4	203.3
55°	668.3	612.5	506.1	405.0	324.5	271.9	242.7	226.6	214.2	203.3	201.9
57.5°	684.0	624.3	513.2	405.8	322.1	269.1	240.3	225.2	212.8	201.5	199.6
60°	693.4	631.0	515.6	403.5	318.3	265.8	237.4	223.2	211.4	198.7	197.2
62.5°	696.2	631.8	513.2	398.7	313.1	261.1	233.2	219.9	208.5	195.3	193.9
65°	691.5	626.7	506.5	391.1	306.0	255.4	228.9	216.2	205.3	191.5	190.1
67.5°	678.7	615.3	494.7	380.8	297.9	248.8	224.2	211.9	201.5	187.3	184.4
70°	659.8	598.3	479.6	367.9	288.6	241.7	218.5	206.7	196.3	182.6	179.7
72.5°	632.4	575.1	459.8	352.4	277.6	234.2	211.4	200.5	190.6	176.9	173.0
75°	599.3	545.3	436.1	336.3	266.3	225.2	204.4	193.9	184.0	170.2	166.9
77.5°	562.3	514.2	410.6	317.8	253.1	216.2	196.7	186.9	176.5	163.2	158.4
80°	522.1	477.7	382.6	299.0	240.7	206.2	188.3	178.7	168.4	155.5	150.4
82.5°	478.7	439.9	354.8	280.0	227.0	196.3	179.7	170.2	159.4	147.1	141.9
85°	436.1	401.1	325.4	259.7	213.8	185.8	170.2	160.8	150.9	138.1	133.4
87.5°	392.1	361.8	296.5	239.9	200.5	175.9	161.2	151.4	141.0	129.2	125.3
90°	353.8	324.9	269.6	220.9	186.9	165.1	151.9	141.4	131.4	120.1	116.8
92.5°	313.1	289.4	243.1	202.9	174.0	154.7	142.4	132.4	121.6	110.7	108.2
95°	278.1	258.7	218.9	184.9	160.4	144.8	132.9	122.5	111.7	101.2	99.8
97.5°	244.5	228.5	195.3	168.4	148.5	134.3	123.0	113.1	101.7	92.3	91.2
100°	214.7	200.5	174.0	153.3	135.7	124.4	113.9	103.6	92.3	83.2	83.2
102.5°	187.3	176.5	155.1	137.6	124.4	113.5	104.1	93.6	82.3	74.8	75.2
105°	165.1	154.7	137.1	123.9	113.1	103.1	94.1	83.7	72.8	66.6	67.2
107.5°	143.7	135.7	121.6	110.3	101.7	93.6	84.2	74.3	63.4	59.5	60.1
110°	125.3	119.2	107.8	98.4	91.8	84.2	75.7	65.2	55.2	53.0	53.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	109.3	104.1	95.5	88.0	81.4	75.2	66.2	56.7	47.3	46.3	46.3
115°	95.5	91.8	83.7	77.6	72.8	66.6	58.7	48.7	41.2	40.7	41.2
117.5°	83.7	80.5	73.8	68.7	64.4	58.7	51.2	41.6	35.0	35.5	35.9
120°	73.3	70.9	65.2	60.9	56.7	51.6	43.4	35.0	30.7	31.2	31.2
122.5°	64.8	62.4	57.7	53.4	49.7	44.5	37.3	29.3	26.4	27.5	27.5
125°	56.3	54.8	50.1	46.3	42.6	37.3	30.7	24.1	22.7	23.6	23.6
127.5°	48.7	47.7	44.0	39.8	35.9	31.2	25.0	19.8	19.3	20.3	20.3
130°	42.1	41.2	37.8	34.1	29.8	25.5	19.3	16.1	16.6	17.5	17.9
132.5°	35.9	35.5	32.1	27.9	24.1	19.8	15.2	13.2	14.2	15.2	15.2
135°	29.8	29.3	27.0	23.2	18.9	15.2	11.4	10.4	11.8	12.8	12.8
137.5°	24.6	23.6	21.8	17.9	14.2	10.9	8.0	8.5	9.5	10.4	10.4
140°	19.3	18.9	17.1	13.7	10.0	7.1	5.7	6.7	8.0	8.5	8.5
142.5°	14.2	14.2	12.3	9.5	6.1	4.3	3.9	4.7	6.1	6.7	6.7
145°	10.0	10.0	8.5	6.1	3.9	1.8	1.8	3.3	4.3	4.7	5.3
147.5°	6.7	6.1	5.3	3.9	1.8	0.4	1.0	2.4	2.8	3.3	3.3
150°	3.9	3.9	2.8	1.8	1.0	0.0	0.4	1.0	1.4	1.8	2.4
152.5°	1.4	1.4	1.0	0.4	0.4	0.0	0.0	0.0	0.4	1.0	1.0
155°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)